**Index of Claims** 

Application/Control No.

10/613,208

Examiner

Reexamination BARBER ET AL.

Applicant(s)/Patent under

Art Unit

Karl D. Frech

2876

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

| Claim                |                            | Date           |              |              |  |          |          |  |          |          |
|----------------------|----------------------------|----------------|--------------|--------------|--|----------|----------|--|----------|----------|
| <del></del> "        |                            | 1              | Т            | Τ            | T  | Ī        | Ť        | Т  | Т        | Т        |
| Final                | Original                   | 1/9/06         |              |              |  |          |          | •  |          |          |
| 1                    | 1                          | =              |              |              |  |          | Ī        |  |          |          |
| 2                    | 2                          | =              | Г            | Г            | Т  |          |          |  |          |          |
| 4                    | 2 3                        | =              | 1            | $\vdash$     | $\vdash$   |          | 1        | 1  | 1        | _        |
| 4<br>5               | 4                          | =              | ┢            | $\vdash$     | <del>                                     </del> | ╁╴       | 十        | 1  | $t^-$    |          |
| 6                    | 5                          | =              | $\vdash$     | $\vdash$     | ┢  | ╁        | +-       | ┼─   | ╁        | ╁        |
| 7                    | 6                          | +-             | ┢            | ├            | ├-   | ╁        | ╁        | ╁╌   | ╫        | $\vdash$ |
| 8                    | 7                          | =              | ┢┈           |              | ┢  | +        | ╁        | ╁  | $\vdash$ | $\vdash$ |
| 9                    | 8                          | =              |              | ⊢            | ├  | ⊢        | ╁╾       | ╁╌   | ┢        | ╁        |
| 10                   | 9                          | Ι <u>-</u>     | -            | ├            | ╁  | ⊢        | ┼        | ├  | ├        | ┢        |
| 11                   | 10                         | =              | -            | ⊢            | -  | ┝        | +        | ⊢  | ┢        | -        |
| 112                  | 11                         | <del>  -</del> | ⊢            |              | H  | -        | ╁        | ╁  | ├        | ⊢        |
| 12                   | 12                         | =              | $\vdash$     | -            | $\vdash$   | +        | +-       | $\vdash$   | $\vdash$ | $\vdash$ |
| 14                   | 12                         | =              | $\vdash$     |              | -  | $\vdash$ | ╁        | <del>                                     </del> | $\vdash$ | $\vdash$ |
| 12<br>13<br>14<br>15 | 11<br>12<br>13<br>14<br>15 | =              | $\vdash$     | $\vdash$     |  | $\vdash$ | ╁        | -  | ╁        | $\vdash$ |
| 17                   | 15                         | <del>ا</del>   | $\vdash$     | $\vdash$     | -  | ├        | ╆        | ╁  |          | $\vdash$ |
| 15                   | 16                         | =              | $\vdash$     | $\vdash$     | +-   | +-       | +-       | $\vdash$   | $\vdash$ | -        |
| 19                   | 17                         | =              | $\vdash$     | $\vdash$     |  | ┢        | ⊢        | ├  | -        | -        |
| 20                   | 16<br>17<br>18             | =              | -            | $\vdash$     | $\vdash$   | $\vdash$ | +        | ╁  | $\vdash$ |          |
| 21                   | 19                         |                | _            | ├            | ⊢  | ├        | -        | ╀  | $\vdash$ |          |
| 21<br>22             | 20                         | =              |              | ┝            | ├  | $\vdash$ | $\vdash$ | ├-   | ┝        | -        |
| 23                   | 21                         |                | $\vdash$     | ⊢            | ⊢  | ⊢        | -        | ├  |          |          |
| 23                   | 22                         | =              | $\vdash$     | ⊢            | -  |          | -        | ├  | $\vdash$ |          |
| 24<br>25             | 22<br>23                   | =              | -            | ┝            | ├  | ┢        | ┢        | ┢╌   | ┝        |          |
| 26                   | 24                         | =              | <del> </del> | -            | ├  | ⊢        | ┝        | ├  | -        |          |
| 27                   | 24<br>25                   | =              |              | -            | -  | $\vdash$ | ├-       | -  | -        | $\vdash$ |
| 27<br>28             | 26                         | =              |              | -            | -  | ⊢        | ⊢        |  |          | -        |
| 20                   | 27                         | =              | <u> </u>     | <u> </u>     |  | <u> </u> | ┢╌       | -  |          |          |
| 29<br>30             | 27<br>28                   | =              |              | _            | _  | ⊢        | ├        | -  | _        | H        |
| 31                   | 29                         | =              |              | <del> </del> | -  | -        | ├        |  |          |          |
| 31                   | 29                         | =              |              | -            | ⊢  | $\vdash$ | ⊢        | -  | -        |          |
| 32<br>33             | 30                         |                | _            | ┝            | <u> </u>   | H        | ⊢        | <b> </b>   | <u> </u> | H        |
| 24                   | 31                         | =              | -            | -            | $\vdash$   | $\vdash$ | -        | <b> </b>   | ├-       | $\vdash$ |
| 34                   | 32                         | ٥              | _            | -            | $\vdash$   | ├-       |          | -  | <u> </u> | Н        |
| 35                   | 33<br>34                   | ╚              | H            | <u> </u>     | ├  | ├        | -        | ├—   | ⊢        | Н        |
| 36                   |                            | =              |              |              | _  | <u> </u> | -        | <u> </u>   | <u> </u> | Н        |
| 37                   | 35                         | =              |              | Ш            | <u> </u>   | <u> </u> | <u> </u> |  | $\vdash$ | Ш        |
| 38                   | 36                         | =              |              | $\vdash$     | <u> </u>   | -        | -        | <u>                                     </u>     | $\vdash$ | Ш        |
| 39                   | 37                         | = -            |              |              | -  | <u> </u> | -        | -  |          | $\vdash$ |
| 40                   | 38                         | =              |              | <u> </u>     | <u> </u>   | $\vdash$ |          | $\vdash$   | $\vdash$ | -        |
| 3                    | 39                         | =              |              |              | _  | ├—       | <u> </u> | <u> </u>   | <u> </u> | $\vdash$ |
| 16                   | 40                         | =              |              |              | _  | -        | ├-       | -  | -        | $\vdash$ |
|                      | 41                         | Н              |              |              | _  | ├_       | -        | <del> </del>                                     | <u> </u> | Н        |
|                      | 42                         | Н              | -            |              | _  | -        | <u> </u> | $\vdash$   | H        | Щ        |
|                      | 43                         |                | $\vdash$     |              | <u> </u>   | $\vdash$ | ├        |  | Ш        | Щ        |
|                      | 44                         | Ш              |              |              |  | <u> </u> | <u> </u> |  |          | Щ        |
|                      | 45                         |                | $\vdash$     |              |  |          |          | _  |          | $\dashv$ |
|                      | 46                         | $\vdash$       | _            |              |  | <u> </u> |          | $\vdash$   | Щ        |          |
|                      | 47                         | Щ              |              | Щ            | _  | <u> </u> |          | <u> </u>   | Щ        | Щ        |
|                      | 48                         | $\dashv$       | $\dashv$     | $\Box$       |  |          | <u> </u> |  | Ш        | $\Box$   |
|                      | 49                         |                |              | _            |  | _        | <u> </u> | Щ  | Щ        |          |
| l                    | 50                         |                |              |              |  | 1        | ı        | 1  |          | - 1      |

| Claim Date  Claim |               |
|---|---------------|
| 1 =   |               |
| 1 =   |               |
| 1 =   |               |
| 52       3       4       55       55       55       56       57       8       50       9       10       2       11       3       12       4       3       12       4       3       62       4       4       63       64   |               |
| 52       3       4       55       55       55       56       57       8       50       9       10       2       11       3       12       4       3       12       4       3       62       4       4       63       64   |               |
| 3     =       4     =       55     =       55     =       56     =       57     =       58     =       59     =       10     =       21     =       31     =       60     =       61     =       62     =       41     =       63     =       64     =  |               |
| 54       55       6 =       7 =       8 =       0 9 =       1 10 =       2 11 =       3 12 =       4 13 =       5 14 =  |               |
| 55       66       7       8       0       9       1       10       2       11       3       12       4       13       63       64   |               |
| 6     =       7     =       8     =       9     =       10     =       60     =       2     11       3     12       4     13       5     14       64  |               |
| 3     7     =     57       1     8     =     58       2     9     =     59       3     12     =     60       4     13     =     62       4     13     =     63       5     14     =     64  |               |
| 1     8     =     58       1     10     =     59       1     10     =     60       2     11     =     61       3     12     =     62       4     13     =     63       5     14     =     64  |               |
| 0     9     =       1     10     =       2     11     =       3     12     =       4     13     =       5     14     =  |               |
| 1 10 = 60 61 61 62 63 63 64 64 64   |               |
| 2   11   =  |               |
| 3 12 = 62 63 63 64 64   |               |
| 1 13 = 63 64 64   | <del></del>   |
| 5 14 = 64   |               |
| ) 17 -  | -             |
| 7   15   =  |               |
|   | -+-+-         |
| 5   16   =  |               |
| 0 18 = 68   | +             |
|   | +             |
|   | -             |
| 3 21 = 71   | +             |
| 3 21 = 71 72 72 72 72 72 72 72 72 72 72 72 72 72  |               |
| 1 22 =  | -             |
| 5 23 =  |               |
|   | +             |
| 7 25 = 75 76 76 76 76 76 76 76 76 76 76 76 76 76  | -             |
|   | -             |
|   | +             |
| 0 28 = 78 79 79   |               |
|   | $\rightarrow$ |
|   | +             |
|   | +             |
| 32 = 82 83 83   | -             |
|   | +             |
|   | -             |
| 35 = 85   |               |
| 3 36 = 86   |               |
| 9 37 = 87<br>9 38 = 88  | +             |
|   | $\rightarrow$ |
| 39 = 89   | $\bot$        |
| 90  |               |
| 41 91   |               |
| 42 92   |               |
| 43 93   | +             |
| 44 94   | -             |
| 45 95   | +             |
| 46 96   | +             |
| 47 97   | 4-4-          |
| 48 98   |               |
| 49 99   |               |
| 50 100  |               |

| Cla   | Date  |                |  |          |          |              |          |          |          |          |
|-------|---|----------------|--|----------|----------|--------------|----------|----------|----------|----------|
|       |   |                |  |          |          | I            | I        | Γ        |          | $\Box$   |
| Final | Original                                      |                |  |          |          |              |          |          |          |          |
|       | 101   |                | H  | ┢        |          | ╁            | $\vdash$ | 1-       |          |          |
|       | 102<br>103                                    |                | Γ  |          |          | Т            |          |          | Г        |          |
|       | 103   |                |  | T        |          | Π            | Γ        |          | Г        |          |
|       | 104   |                |  |          |          |              |          |          |          |          |
|       | 104<br>105                                    | L              |  |          |          | <u></u>      |          | _        |          |          |
| L     | 106   | L.             | 乚  | _        | 匚        | <u> </u>     | <u> </u> |          |          | Ш        |
|       | 107   | _              | ┡  |          | ļ.,      | _            | _        | <u> </u> | L        | Ш        |
|       | 108   | <u> </u>       | <u> </u>   | -        | <b>├</b> | ┞            | ـ        | ┡        |          | Ш        |
|       | 109   | <del> </del> — | ┝  | Ͱ        | ├-       | ├            | ┢        | ┝        | <u> </u> | Н        |
|       | 110<br>111<br>112<br>113<br>114<br>115        | $\vdash$       | ├  | ├        | -        | $\vdash$     | ⊢        | -        | <u> </u> | Н        |
|       | 111   | H              | -  | -        | $\vdash$ | $\vdash$     | ⊢        | ⊢        | ┢        | Н        |
|       | 113   | ┢┈             | ├  | ╁─╴      | -        | ┝            | ⊢        | $\vdash$ | ┢        |          |
|       | 114   | -              | -  | -        | ┢        | <del> </del> | ┢        | $\vdash$ | ┢        | Н        |
|       | 115   | -              | <del>                                     </del> | H        |          | $\vdash$     | ╁        | ╁┈       | $\vdash$ | $\vdash$ |
|       | 116   |                | l  |          |          | <b>†</b> -   | <u> </u> | $\vdash$ |          | $\vdash$ |
|       | 117   | _              |  |          |          |              | T        | $\vdash$ | Т        | Н        |
|       | 118   | $\vdash$       | Г  |          | Г        | Г            |          | 厂        |          | П        |
|       | 116<br>117<br>118<br>119                      |                |  |          |          |              |          |          |          | П        |
|       | 120   |                |  |          |          |              |          |          |          | П        |
|       | 121<br>122<br>123                             |                |  |          |          |              |          |          |          |          |
|       | 122   |                |  |          |          |              |          |          |          |          |
|       | 123   |                |  |          |          |              | L        |          |          |          |
|       | 124   |                | <u> </u>   | <u> </u> |          |              | _        | _        |          | Ш        |
|       | 125   | _              | <u> </u>   | _        | _        | <u> </u>     | <u> </u> | _        | _        | Ш        |
|       | 126   |                | _  | ┞        | _        | <u> </u>     | <u> </u> |          | L        | Щ        |
|       | 127   |                | _  | <u> </u> | _        | -            | ⊢        | _        |          | Н        |
|       | 120   |                | -  | _        | -        | $\vdash$     | -        | _        | _        | $\dashv$ |
|       | 124<br>125<br>126<br>127<br>128<br>129<br>130 |                | $\vdash$   | ┢        | ⊢        | H            | ┝        | $\vdash$ |          | -        |
|       | 131   |                |  | ⊢        | ┝        | _            | ├        | -        |          |          |
|       | 132   |                |  | ┢        | $\vdash$ | _            | -        | _        | <u> </u> | -        |
|       | 132<br>133                                    |                |  | 一        | $\vdash$ | -            |          |          |          |          |
|       | 134   |                | $\vdash$   |          |          |              |          |          |          |          |
|       | 135   |                |  |          |          | Г            |          |          |          |          |
|       | 136   |                |  |          |          |              |          |          |          |          |
|       | 137   |                |  |          |          |              |          |          |          |          |
|       | 138   |                | Ш  | L.       |          |              | L        |          |          |          |
|       | 139   |                | Ш  | L        |          | _            | <u>L</u> | _        | <u> </u> | Ш        |
|       | 140   | _              | L.,  |          | <u> </u> | _            | <u> </u> | <u> </u> |          | Ш        |
|       | 141   |                |  | <u> </u> | _        |              | <u> </u> | _        | <u> </u> | Ш        |
| -     | 142   | _              | _  | -        |          |              | <u> </u> | <u> </u> |          | Н        |
|       | 143   |                | $\vdash$   |          | -        | -            | $\vdash$ | $\vdash$ |          | Н        |
|       | 144<br>145                                    |                |  |          | _        | $\vdash$     | $\vdash$ | Н        | $\vdash$ | $\dashv$ |
|       | 146   |                | Н  | -        | _        | -            | -        | $\vdash$ | Н        | $\dashv$ |
|       | 147   |                | Н  | Н        |          | -            |          | $\vdash$ | $\vdash$ | $\dashv$ |
| -     | 148   |                | $\vdash$   |          |          | $\vdash$     | $\vdash$ | $\vdash$ |          | $\dashv$ |
|       | 149   | _              | $\vdash$   | H        | _        | $\vdash$     | H        | $\vdash$ |          | $\dashv$ |
|       | 150   |                | $\vdash$   | $\vdash$ |          | $\vdash$     | $\vdash$ |          |          | $\dashv$ |
|       |   |                |  | نـــا    | _        | لب           | _        | لـــا    | -        |          |